ASRock Q1900TM-ITX

A Thin Mini-ITX motherboard and Quad-Core J1900 processor combo for AIO solution

Product Specifications Stand: 16.06.2014

General	
Unique Feature	**ASRock Full Spike Protection** **ASRock Cloud** **ASRock APP Shop**
CPU	- Intel® Quad-Core Processor J1900 (2 GHz)
Memory	- Dual Channel DDR3/DDR3L Memory Technology - 2 x DDR3/DDR3L SO-DIMM Slots - Supports DDR3/DDR3L 1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB* *Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system u under Windows® 32-bit OS. For Windows® 64-bit OS with 64-bit CPU, there is no such limitation. **If only one SO-DIMM module is installed, please install it into DDR3_A1.
BIOS	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports Plug and Play - ACPI 1.1 compliant wake up events - SMBIOS 2.3.1 support
Audio, Video and Networking	
Graphics	- Intel® 7th generation (Gen 7) graphics (Supports Intel® Quick Sync Video) - DirectX 11.0, Pixel Shader 5.0 - Three graphics output options: D-Sub, HDMI and LVDS - Supports HDMI with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports LVDS with max. resolution up to 1920x1200 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Por (Compliant HDMI monitor is required) - Supports HDCP with HDMI Port - Supports Full HD 1080p Blu-ray (BD) playback with HDMI Port
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)* To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio featur through the audio driver. - Premium Blu-ray Audio support - Supports Surge Protection (ASRock Full Spike Protection)

LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Qualcomm® Atheros® AR8171 - Supports Qualcomm® Atheros® Security Wake On Internet Technology - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Expansion / Connectivity	
Slots	- 1 x PCI Express 2.0 x1 Slot - 1 x mini-PCI Express Slot (Bluetooth function in WiFi module is not supported)
Storage	- 2 x SATA2 3.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug
Connector	- 1 x Backlight Power Selection Jumper - 1 x Panel Power Selection Jumper - 1 x Backlight Control Header - 1 x Digital Input / Output Pin Header - 1 x Digital Input / Output Power Selection Jumper - 1 x Home Theater PC Header - 1 x Monitor Switch Header - 1 x Digital MIC Header - 1 x 3W Audio AMP Output Wafer Header - 1 x LVDS Connector - 1 x CIR Header - 1 x COM Port Header - 1 x Power LED Header - 1 x TPM Header - 1 x CPU Fan Connector (4-pin) - 1 x Chassis Fan Connector (4-pin) - 1 x SATA Power Connector - 1 x Front Panel Audio Connector - 3 x USB 2.0 Headers (Support 5 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header by Etron EJ188 (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Spike Protection))
Rear Panel I/O	- 1 x DC Jack (Compatible with the 19V power adapter) - 1 x D-Sub Port - 1 x HDMI Port - 3 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Port (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Microphone / Front Speaker (Supports SPDIF Optical)
Other Features / Miscellaneous	
Software and UEFI	**Software** - ASRock A-Tuning - ASRock USB Key - ASRock XFast LAN - ASRock XFast RAM - ASRock Restart to UEFI **UEFI** - ASRock Instant Flash - ASRock Internet Flash

	- ASRock Crashless BIOS
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (3 days trial), Kloudian Orbweb.ME Professional (Win 8.1 / 7)
Accessories	- Quick Installation Guide, Support CD, I/O Shields - 2 x SATA Data Cables - 1 x SATA 1 to 2 Power Cable - 1 x WiFi Module Screw
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
Form Factor	- Thin Mini-ITX Form Factor (Compatible with Mini-ITX) - ASRock DuraCap (2.5 x longer life time) (100% Japan-made high-quality conductive polymer capac - High Density Glass Fabric PCB
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)

Caution:
Please realize that there is a certain risk involved with overclocking, including adjusting the setting in the BIOS or using the third-party overclocking tools. Overclocking may affect your system stability, or even cause damage to the components and devices of your system. It should be done at your own risk and expense. We are not responsible for possible damage caused by overclocking.

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